



FIG. 2

Define size and location of region of interest as
part of source image
Calculate the scale of conversion in x- and y-
direction
Calculate number of rows of pixels of destination image according to scale of conversion required in y-direction
Calculate number of pixels contained in a row of pixels of destination image according to scale of conversion required in x-direction
V
Calculate x,y coordinates of the virtual starting point of destination pixels for each frame
Calculate virtual location of first destination pixel of new row in x-direction and interpolate new color values of said destination pixel from nearest source pixels located on nearest row in y- direction of source pixels
Calculate virtual position of next destination pixel in x-direction according to scale factor and interpolate new color values of said destination pixel value from nearest source pixels located on nearest row in y-direction of source pixels
Last
destination pixel in x-direction 307
reached?
Yes
Last
Yes row of destination pixels in y- direction reached 308
J.No
Calculate virtual location of next y-row according to scale factor in y-direction
Display zoomed region of interest in destination image 310 FIG. 3